

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2002

BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0305176F Combat Survivor Evader Locator

PROJECT

4522

COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4522 CSAR EMD	10,074	11,344	14,274	15,009	0	0	0	0	112,827
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**

The Combat Survivor Evader Locator (CSEL) joint program, with the Air Force as lead service, will provide enhanced Combat Search and Rescue (CSAR) communications and location capabilities by replacing antiquated PRC-90 and -112 survivor radios with a new end-to-end system. The CSEL system will be used by all the Services and, potentially, non-DoD government agencies. CSEL features include a new hand-held radio that incorporates secure two-way over-the-horizon messaging, line-of-sight voice, near-real-time geopositioning, verification of evader identity and condition, and low probability of intercept/low probability of detection communications. The system is now being developed in an evolutionary fashion per the updated Operational Requirements Document approved in February 2000: Block 1 will meet threshold requirements for Initial Operational Capability and Block 2 will add technical interoperability enhancements.

(U) **FY 2001 (\$ in Thousands)**

(U) \$7,115 CSEL Engineering and Manufacturing Development
 (U) \$420 Government Test and Operational Assessment
 (U) \$2,539 Other Government Support
 (U) \$10,074 Total

(U) **FY 2002 (\$ in Thousands)**

(U) \$8,073 CSEL Engineering and Manufacturing Development
 (U) \$1,252 Government Test and Operational Assessment
 (U) \$2,019 Other Government Support
 (U) \$11,344 Total

Project 4522

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Exhibit R-2 (PE 0305176F)

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<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2003 (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">(U) \$10,083</td> <td>CSEL Engineering and Manufacturing Development</td> </tr> <tr> <td>(U) \$1,929</td> <td>Government Test and Operational Assessment</td> </tr> <tr> <td>(U) \$2,262</td> <td>Other Government Support</td> </tr> <tr> <td>(U) \$14,274</td> <td>Total</td> </tr> </table> <p>(U) <u>B. Budget Activity Justification</u></p> <p>This program is in Budget Activity 5, Engineering and Manufacturing Development, because it is in engineering and manufacturing development and has not received full-rate production approval.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">10,742</td> <td style="text-align: center;">11,486</td> <td style="text-align: center;">1,409</td> <td style="text-align: center;">83,372</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: center;">10,842</td> <td style="text-align: center;">11,486</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. Congressional/General Reductions</td> <td style="text-align: center;">-76</td> <td style="text-align: center;">-142</td> <td></td> <td></td> </tr> <tr> <td> b. Small Business Innovative Research</td> <td style="text-align: center;">-65</td> <td></td> <td></td> <td></td> </tr> <tr> <td> c. Omnibus or Other Above Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> d. Below Threshold Reprogram</td> <td style="text-align: center;">-603</td> <td></td> <td></td> <td></td> </tr> <tr> <td> e. Rescissions</td> <td style="text-align: center;">-24</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2002 PBR</td> <td></td> <td></td> <td style="text-align: center;">12,865</td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2003 PBR</td> <td style="text-align: center;">10,074</td> <td style="text-align: center;">11,344</td> <td style="text-align: center;">14,274</td> <td style="text-align: center;">112,827</td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u></p> <p>FY 2001: Below Threshold Reprogram to support higher Air Force priorities</p> <p>FY 2003: Adjustment to complete Block 2 development effort per revised cost estimate</p>			(U) \$10,083	CSEL Engineering and Manufacturing Development	(U) \$1,929	Government Test and Operational Assessment	(U) \$2,262	Other Government Support	(U) \$14,274	Total		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget	10,742	11,486	1,409	83,372	(U) Appropriated Value	10,842	11,486			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	-76	-142			b. Small Business Innovative Research	-65				c. Omnibus or Other Above Threshold Reprogram					d. Below Threshold Reprogram	-603				e. Rescissions	-24				(U) Adjustments to Budget Years Since FY 2002 PBR			12,865		(U) Current Budget Submit/FY 2003 PBR	10,074	11,344	14,274	112,827
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<div style="display: flex; justify-content: space-between;"> Project 4522 Page 2 of 5 Pages Exhibit R-2 (PE 0305176F) </div>																																																																	

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)							DATE February 2002					
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0305176F Combat Survivor Evader Locator			PROJECT 4522					
(U) D. Other Program Funding Summary (\$ in Thousands)												
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>			
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>				
(U) Other Procurement, Air Force - WSC 837170 (Budget Activity 3)	7,628	0	11,049	9,109	17,249	28,427	32,062	73,062	191,116			
Note: Army and Navy equipment is funded separately by those services.												
(U) E. Acquisition Strategy All major contracts within this Program Element were awarded after full and open competition.												
(U) F. Schedule Profile												
	<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Government Developmental Testing	*	*										
(U) Operational Assessment		*										
(U) Low-Rate Initial Production (LRIP) Lot 1 Award				*								
(U) LRIP Lot 2 Award						X						
(U) LRIP Lot 1 First Unit Delivery						X						
(U) Government Developmental Testing						X	X					
(U) Multi-Service Operational Test & Evaluation									X			
(U) LRIP Lot 2 First Unit Delivery									X			
(U) Full Rate Production Decision												X
* = completed event X = planned event												

Project 4522
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2002			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT		
05 - Engineering and Manufacturing Development					0305176F Combat Survivor Evader Locator				4522		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		
(U) CSEL Engineering and Manufacturing Development					7,115		8,073		10,083		
(U) Government Test and Operational Assessment					420		1,252		1,929		
(U) Other Government Support					2,539		2,019		2,262		
(U) Total					10,074		11,344		14,274		
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
(U) <u>Performing Organizations:</u>											
<u>Contractor or</u>		<u>Contract</u>									
<u>Government</u>		<u>Method/Type</u>		<u>Award or</u>		<u>Performing</u>		<u>Project</u>			
<u>Performing</u>		<u>or Funding</u>		<u>Obligation</u>		<u>Activity</u>		<u>Office</u>		<u>Total Prior</u>	
<u>Activity</u>		<u>Vehicle</u>		<u>Date</u>		<u>EAC</u>		<u>EAC</u>		<u>to FY 2001</u>	
<u>Product Development Organizations</u>								<u>Budget</u>		<u>Budget</u>	
								<u>FY 2001</u>		<u>FY 2002</u>	
								<u>FY 2003</u>		<u>Budget to</u>	
										<u>Complete</u>	
										<u>Total</u>	
										<u>Program</u>	
Boeing		CPAF		23 Feb 96		85,162		85,162		47,917	
SMC (COBRA)		Multiple		Multiple		4,000		4,000		4,000	
<u>Support and Management Organizations</u>											
SPAWAR		MIPR		Multiple		N/A		N/A		1,503	
PRC/ARINC/BD Systems		CPAF		Multiple		N/A		N/A		1,680	
FFRDC (MITRE/Aerospace)		CPAF		Multiple		N/A		N/A		3,473	
MANTECH		CPAF		Multiple		N/A		N/A		600	
SMC		CPAF		Multiple		N/A		N/A		426	
JPRA		MIPR		Nov 02		N/A		N/A		0	
Miscellaneous		Multiple		Multiple		N/A		N/A		440	
<u>Test and Evaluation Organizations</u>											
AFOTEC		CPAF		Multiple		N/A		N/A		290	
746TS		CPAF		Multiple		N/A		N/A		1,308	
Joint Spectrum Center		CPAF		Multiple		N/A		N/A		202	
ESC (TBMCS SPO)		CPAF		Multiple		N/A		N/A		0	
Project 4522					Page 4 of 5 Pages				Exhibit R-3 (PE 0305176F)		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2002			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT		
05 - Engineering and Manufacturing Development					0305176F Combat Survivor Evader Locator				4522		
(U) <u>Performing Organizations Continued:</u>											
<u>Test and Evaluation Organizations</u>											
EPG	MIPR	Multiple	N/A	N/A	90	190	900	500	500	2,180	
JITC	MIPR	Multiple	N/A	N/A	197	120	252	102	103	774	
DISA	MIPR	Multiple	N/A	N/A	0	0	0	462	364	826	
CECOM	MIPR	Multiple	N/A	N/A	0	0	0	290	250	540	
					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>	
<u>Subtotals</u>					<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>	
Subtotal Product Development					51,917	7,115	8,073	10,083	11,974	89,162	
Subtotal Support and Management					8,122	2,539	2,019	2,262	1,515	16,457	
Subtotal Test and Evaluation					2,087	420	1,252	1,929	1,520	7,208	
Total Project					62,126	10,074	11,344	14,274	15,009	112,827	